

Framework for Public Participation GIS: Options for Federal Agencies

USGS Fort Collins Science Center
September 12, 2012

Need

- Reduced Resources
 - Staff
 - Monitoring Budget
- Increased Responsibility
 - Large Management Areas
 - Multiple Resource Issues
- Office Turnover
 - Knowledge of Area
 - Issue Awareness
 - Sense of Ownership



Impedances

- Paperwork Reduction Act (PRA)
 - OMB Approval of Data Collection from the Public
 - Direct Data Collection, Contract, Cooperative Agreement, even some Grants
- Personally Identifiable Information (PII)
 - Location Issues
- Technology Policy
 - Terms of Service (TOS) Reviews
 - Security and Purchasing Blocks
- Data Integrity Requirements

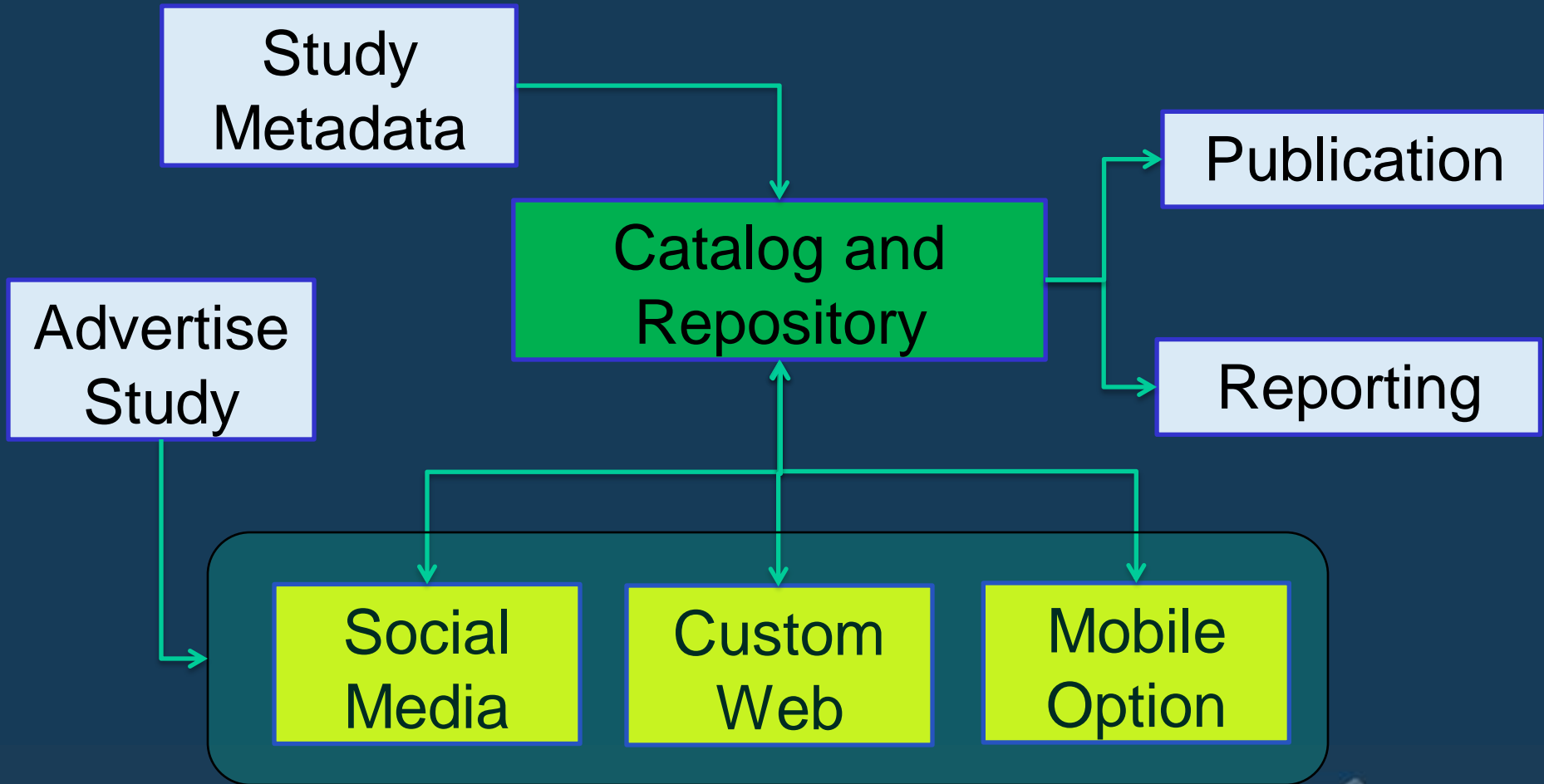


Implementation Within Policy

- PRA
 - Limit inputs to general comments on an identified area
- PII/PIA
 - Hash any personal information
- Technology Policy
 - Write for mobile web
 - Use approved social media APIs
- Data Integrity Requirements
 - Develop metadata in process
 - Early connections to USGS publication process



Workflow Overview



Develop Study Metadata

Project Creation [Project Creation Help](#)

Project Name *

Forest Name (ie Sequoia National Forest) *

Unique System Name (ie tahoe, chugach) *

Project Purpose *

Project Contact *

Project Description *

Comment Period End Date *

Turn On Commenting on this Project ☒

Allow Replies ☒ (requires Commenting On)

Allow Picture Uploads ☐ (requires Commenting On)

Allow Users to View All Public Conversations ☒ (this setting adds a "To view all comments click here" link on the project home page)

Project Specific Keywords (separate by commas)

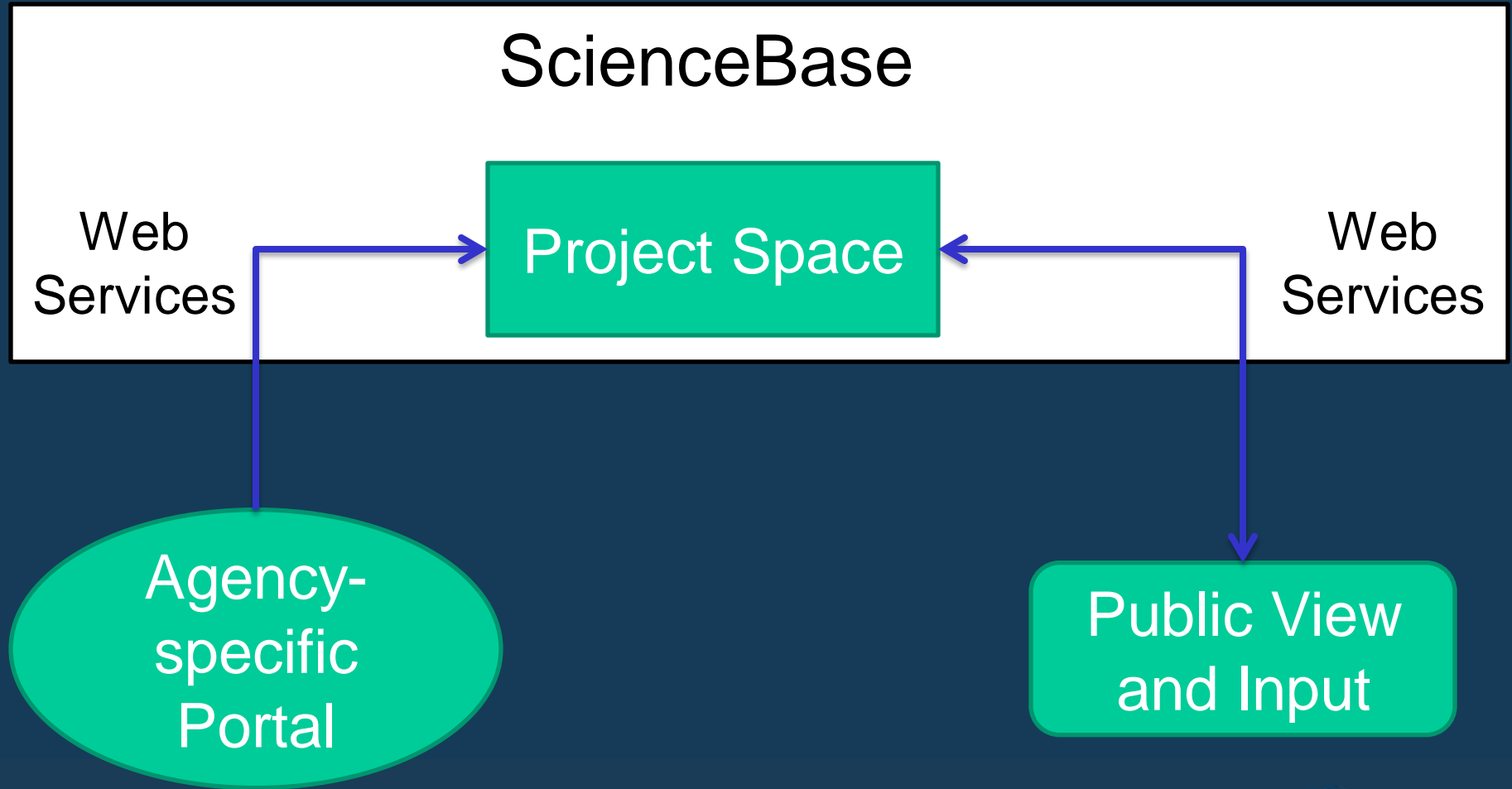
Project Managers Email Addresses (separate by commas)

Project Map Definition [Map Definition Help](#)

Upload Map Package No file chosen

Map Server URL

Build Around Secure Enterprise Repository



ScienceBase

- Full Department of Interior security apparatus
- Provides spaces for multiple projects/studies
 - Each study controls its own space
 - Study can keep track of all data products,
 - Lets projects build derivative datasets, track versions, and build metadata
- System takes care of annoying data protection and policy pieces
- Can develop parent-child and association relationships among other studies



Study Area Load

USGS
science for a changing world

USGS Home
Contact USGS
Search USGS

ScienceBase Catalog

About Communities Add Item My Items Help

Communities → PPGIS → Map Packages → PPGIS_ChugachNF_v4.mpk

Access Manage

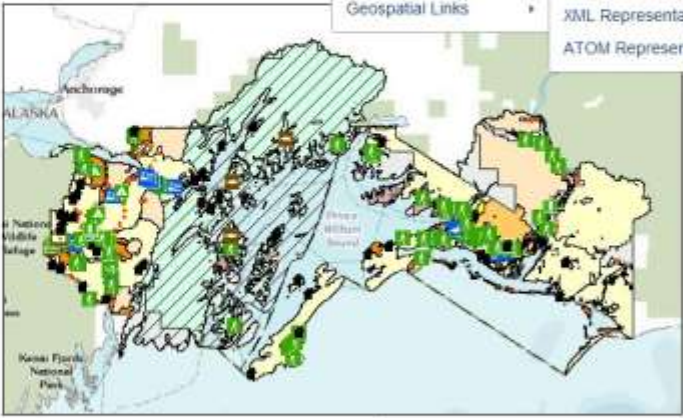
Download
View As
Geospatial Links

JSON Representation
XML Representation
ATOM Representation

Edit Footprint

Communities
PPGIS
Related Items
Parent Item: [Map Packages](#)
Other Associated Items:
[Associate an Item](#)

Preview Map - Interactive Map



Files

- Extension: [PPGIS_ChugachNF_v4.mpk](#)
[PPGIS_ChugachNF_v4.mpk](#) 8 MB x-gis&-mpk

Geospatial Service URLs

- ArcGIS REST Service: <https://my.usgs.gov/arcgis/rest/services/Catalog/4f98350de4b0d85c5485d3b7/MapServer>

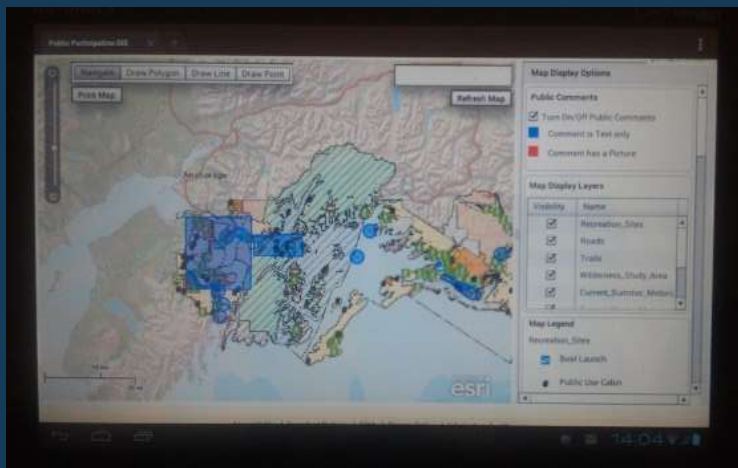
<https://www.sciencebase.gov/catalog/item/4f98350de4b0d85c5485d3b7#>

Data Collection Marketing

- Outreach
 - Community Meetings
 - Local Media
 - Social Media
 - Agency Web Site
- Advertise Access Options
 - Hashtag Publication
 - Site URL
 - App Download



Public Data Input Options



- Develop for multiple screen sizes
- Work around limitations of mobile views
- Need native app for full capability

Automated Input Processing

- Twitter
 - Term harvest
 - Location inference
 - User metadata obfuscation
- Web/Mobile
 - Comment parsing and logic/term identification
 - Comment screening
 - Image metadata scraping
 - Location and spatial data capture

Data Management and Distribution

- Data Publication
 - Metadata Development
 - Approval Workflow
- Data Discovery and Distribution
 - Search
 - Preview
 - Feedback/Analytics
 - Download
 - Multiple Service Endpoints

Publication and Interoperability

